

1/4

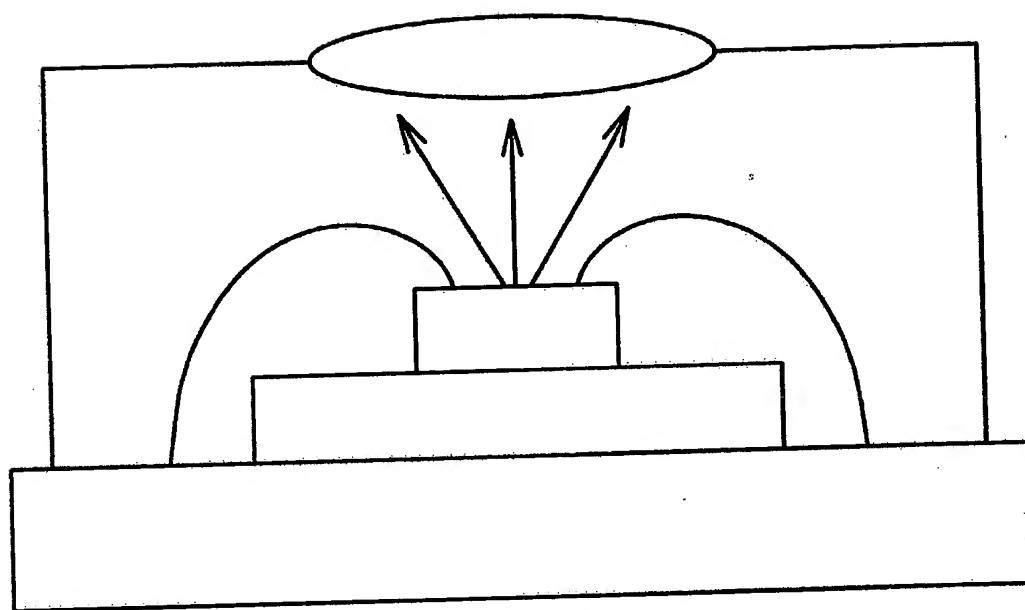


FIG. 1

Prior Art

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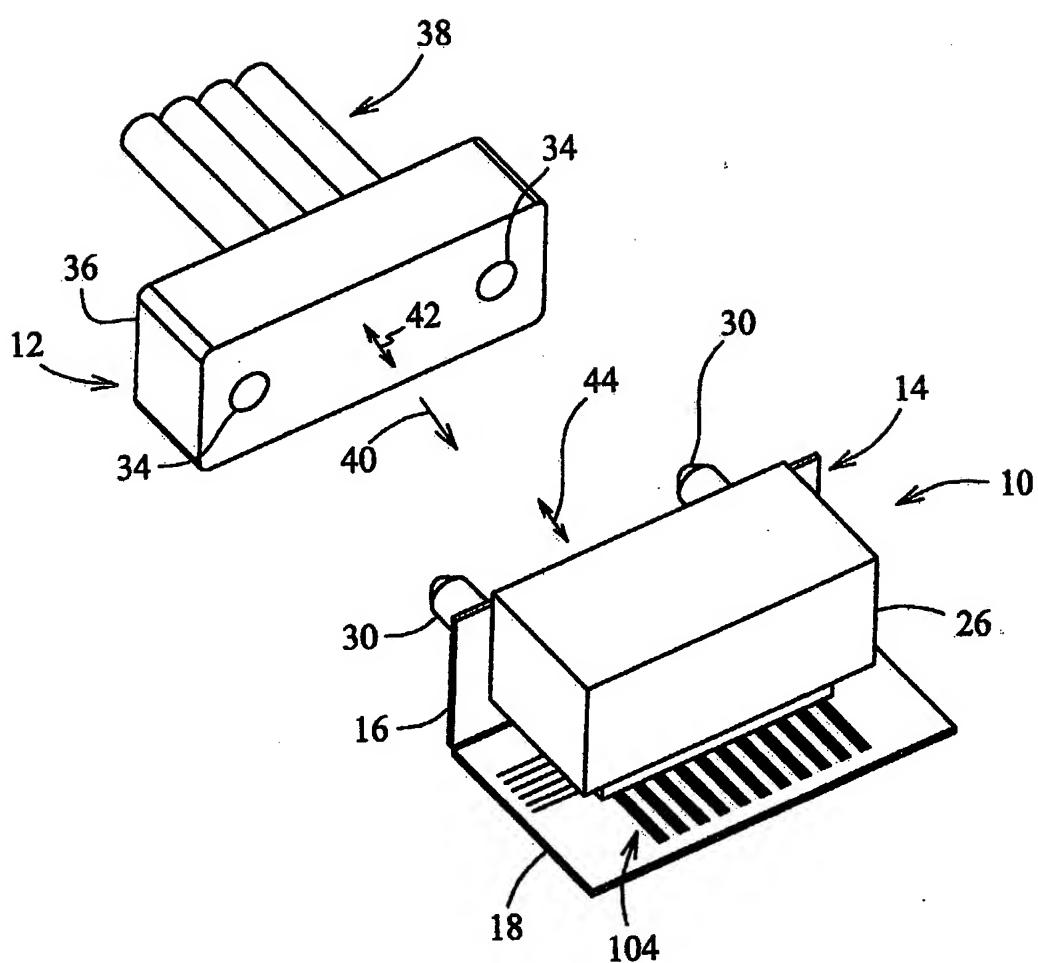
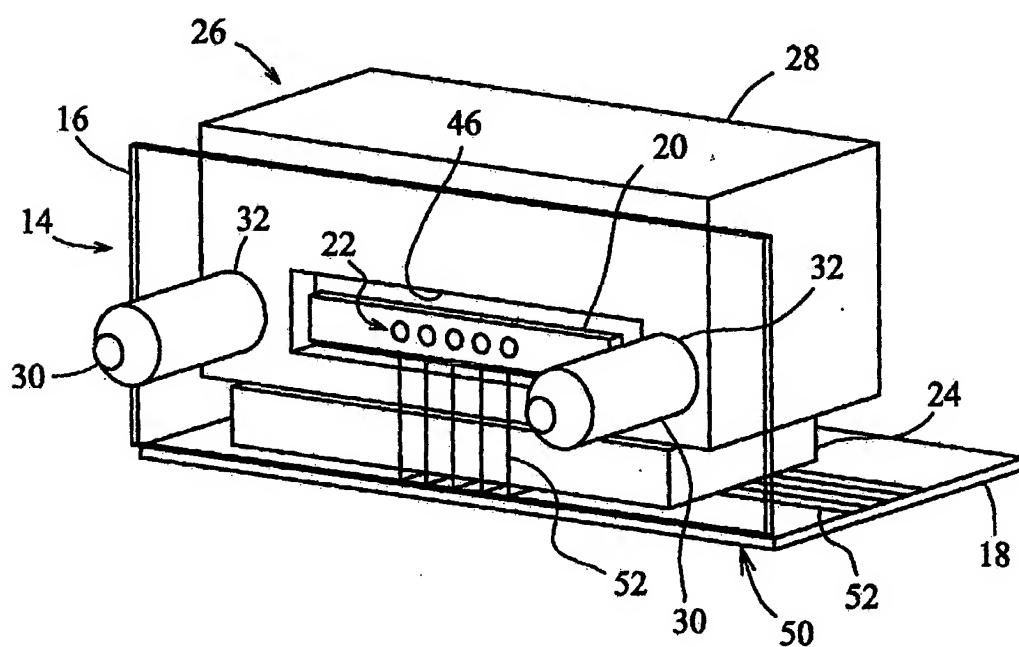


FIG. 2

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FIG. 3

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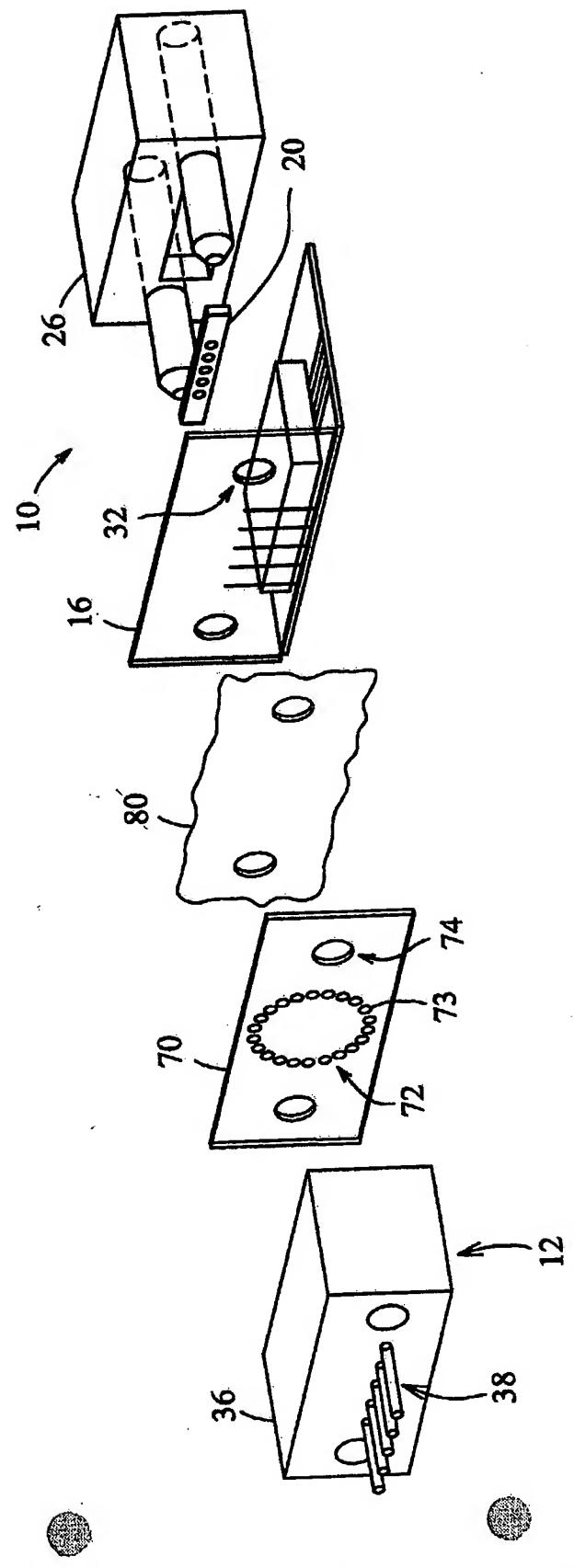
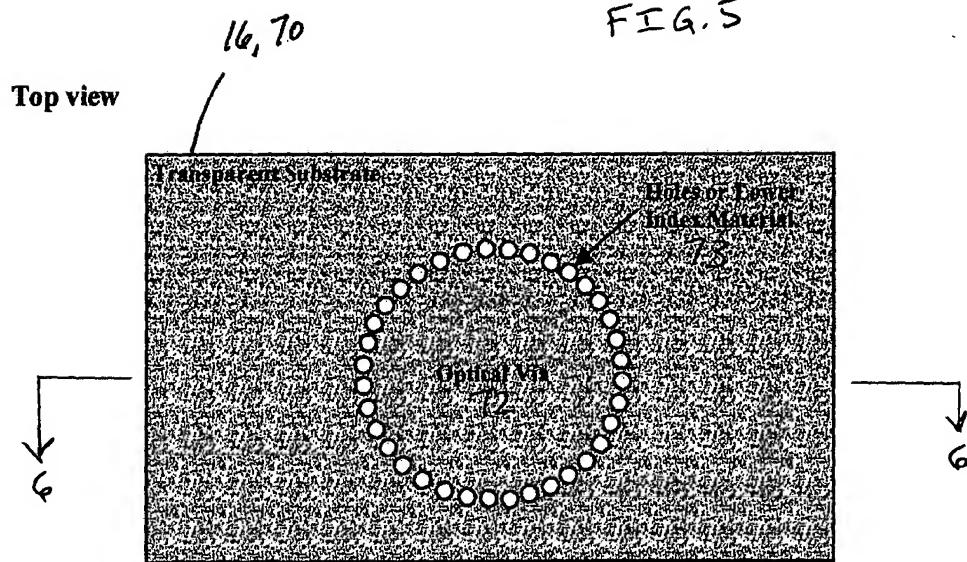


FIG. 5



Cut away side view

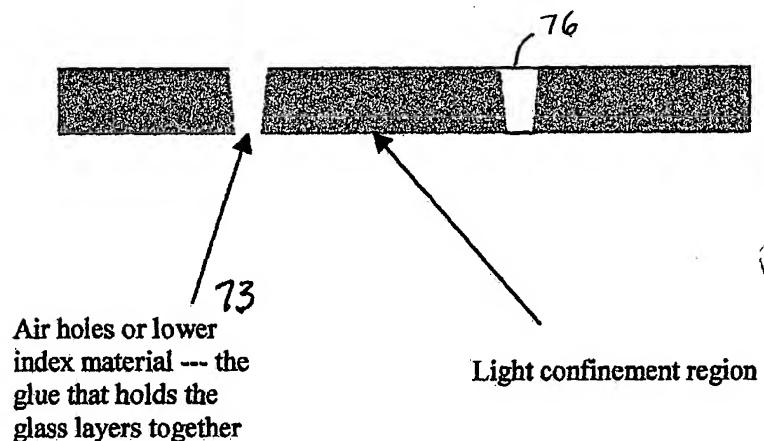


FIG. 6

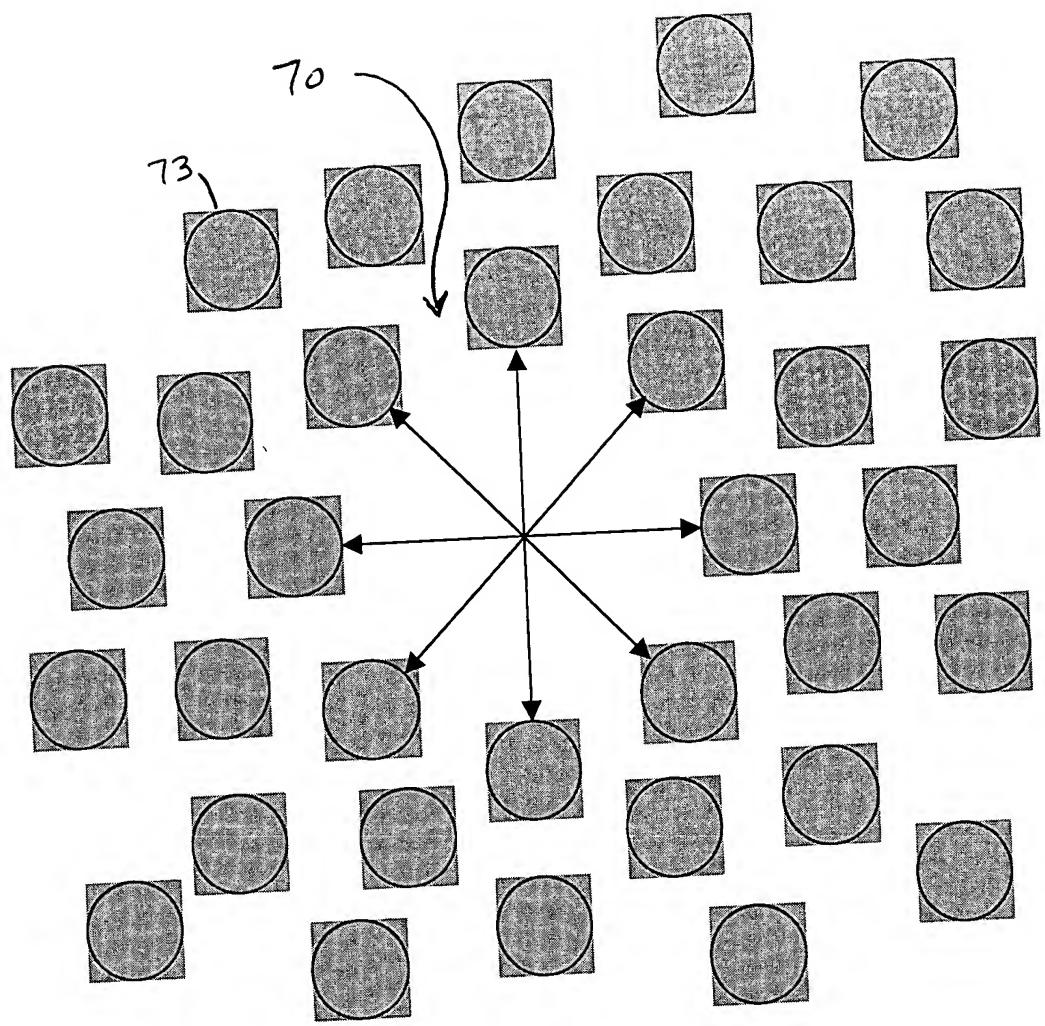


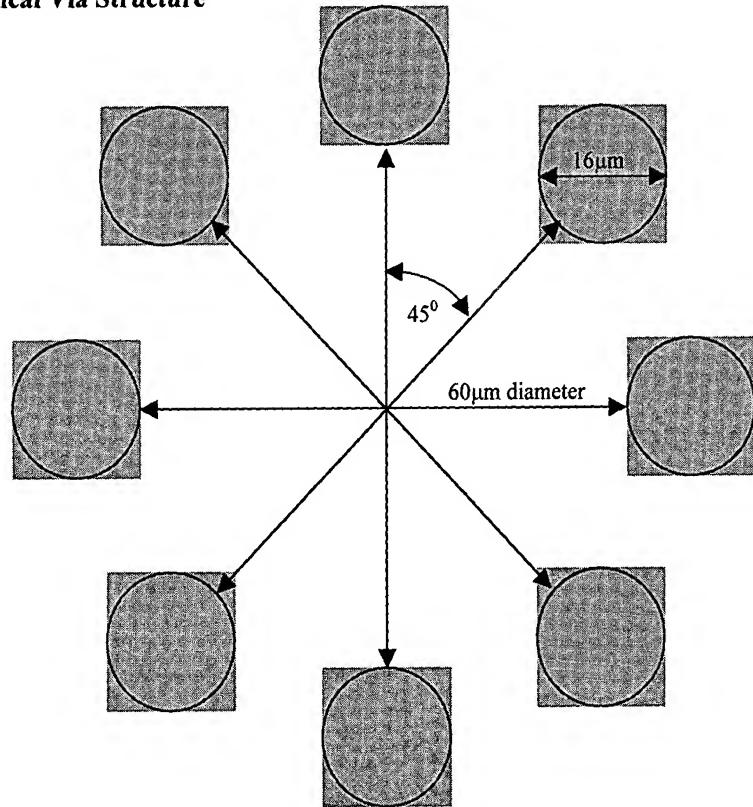
FIG. 7

Corona Optical Systems
2-26-02

Optical Via Rev 0

The eight dark circles will be holes that are placed in the glass surface. The diameter of each of the holes is $16\mu\text{m}$ at the surface of the glass. These eight holes will make up an optical via that will be centered over each of the Rx device's optical ports. A mask could be made that would produce all twelve vias at the same time or each via could be made individually.

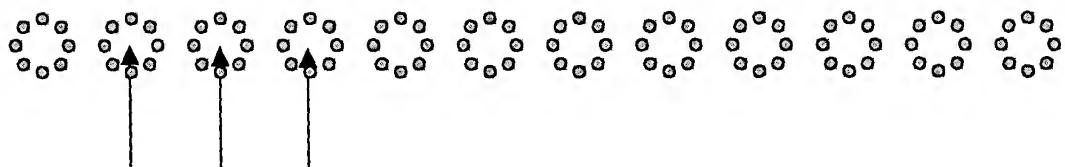
Optical Via Structure



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FIG. 8

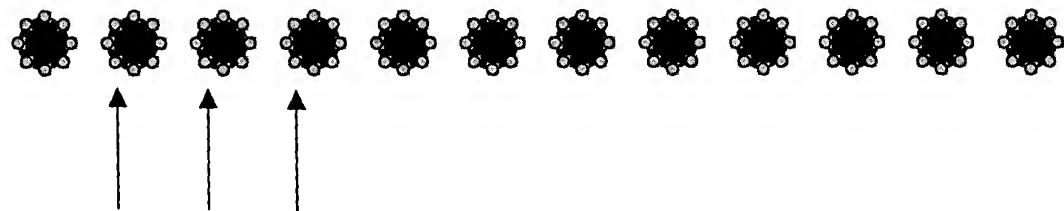
Array of twelve vias centered over each optical port



12 vias on 250 μ m centers, vias will be ~30 μ m to 50 μ m deep in glass

FIG. 9

Array of twelve vias centered over each optical port



12 blue circles show the PD 70 μ m aperture

FIG. 10